

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	69	(US-20010048537-\$ or US-20030175037-\$).did. or (US-6735395-\$ or US-6545788-\$ or US-6618404-\$ or US-6611341-\$ or US-5276696-\$ or US-5134623-\$ or US-5081635-\$ or US-4947398-\$ or US-5287555-\$ or US-7016610-\$ or US-6842587-\$ or US-4989201-\$ or US-4008390-\$ or US-4962503-\$ or US-6599039-\$ or US-6925262-\$ or US-5546325-\$ or US-5541755-\$ or US-5184244-\$ or US-5488503-\$ or US-5124665-\$ or US-5502298-\$ or US-4403139-\$ or US-5943152-\$ or US-5900959-\$ or US-6066983-\$).did. or (US-5257415-\$ or US-5080505-\$ or US-5894362-\$ or US-5859725-\$ or US-5003624-\$ or US-6005695-\$ or US-6631019-\$ or US-6259712-\$ or US-5867513-\$ or US-6400737-\$ or US-6459830-\$ or US-6243403-\$ or US-4907237-\$ or US-6621580-\$ or US-6529534-\$ or US-5214659-\$ or US-5107511-\$ or US-6587214-\$ or US-5130998-\$ or US-6456411-\$ or US-6445471-\$ or US-6246286-\$ or US-5818629-\$ or US-6259542-\$ or US-6310703-\$ or US-4945541-\$ or US-5193224-\$).did. or (US-5182524-\$ or US-6788138-\$ or US-6625429-\$ or US-5774242-\$ or US-5282074-\$ or US-5847856-\$ or US-4893353-\$ or US-3731103-\$ or US-5365535-\$ or US-5031234-\$ or US-6438188-\$ or US-5357249-\$ or US-6549310-\$ or US-5321543-\$).did.	US-PGPUB; USPAT	OR	OFF	2006/03/31 17:21
L3	9	2 and eye	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/31 17:24
L4	7	2 and spatial\$2	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/31 17:24
S1	335	398/195-198.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 09:23

## EAST Search History

S2	2	"20020186689".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/05/11 17:46
S3	699	(duty adj cycle) with distort\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/05/19 14:58
S4	337	398/195-198.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/05/19 15:51
S5	699	(duty adj cycle) with distort\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/05/19 14:59
S6	2	S4 and S5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/05/19 15:00
S7	6	yorks-jason.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/27 14:45
S8	134	data adj dependent adj jitter	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/05/19 15:56
S9	11704	398/1-214.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/31 12:31
S10	14	S8 and S9	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/05/19 15:36
S11	37734	jitter	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/05/19 16:00
S12	16	S4 and S11	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/05/19 15:36
S20	289	398/25-28.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/27 14:45

## EAST Search History

S21	337	398/195-198.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/27 14:45
S22	282	S20 not S21	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/05/19 18:03
S23	385	398/195-198.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 10:12
S24	338	398/25-28.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/27 14:45
S25	8	yorks-jason.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/27 14:45
S26	385	398/195-198.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/27 16:10
S27	338	398/25-28.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/27 16:57
S28	376	S26 not S27	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/27 16:10
S29	890	455/126.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/27 16:13
S30	124450	(two or second or another or additional or multiple) adj (sensor\$1 or detector\$1 or detecting or monitor\$1 or monitoring or sensing)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/27 16:45
S31	45	S29 and S30	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/27 16:14
S32	29	S26 and S30	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/27 16:28

## EAST Search History

S33	8189	(two or second or another or additional or multiple) adj (photodetector\$1 or photo-detector\$1 or photodetecting or photodetection or photo-detecting or photo-detection)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 10:14
S34	25	S26 and S33	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/27 16:46
S35	20	S34 not S32	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/27 16:46
S36	131048	S30 or S33	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/27 16:57
S37	991	398/25-38.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/27 16:58
S38	89	S36 and S37	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/27 16:58
S40	13030	398/1-214.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 09:23
S41	5416	(emulat\$4 or simulat\$4) near2 (receiv\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 09:24
S42	22799	(emulat\$4 or simulat\$4) with (receiv\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 09:24
S43	45	S41 and S40	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 09:25
S44	156	S42 and S40	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 09:24

## EAST Search History

S45	111	S44 not S43	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 15:23
S46	2512	372/29.01-32.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 10:13
S47	504	372/29.01-29.016.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 10:13
S48	596	372/29.02-29.023.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 10:14
S49	1857	372/30-32.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 10:14
S50	124552	(two or second or another or additional or multiple) adj (sensor\$1 or detector\$1 or detecting or monitor\$1 or monitoring or sensing)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 10:14
S51	8194	(two or second or another or additional or multiple) adj (photodetector\$1 or photo-detector\$1 or photodetecting or photodetection or photo-detecting or photo-detection)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 10:14
S52	131154	S50 or S51	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 10:14
S53	295	S52 and S46	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 10:23
S54	1	S40 and (king-jeffrey-.in.)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 10:27
S55	0	S40 and (king-jeffrey.in.)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 10:27



## EAST Search History

S56	88	king-jeffrey-\$.in. or king-jeffrey.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 10:29
S57	921	372/26.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 10:29
S58	38	S52 and S57	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 10:29
S59	33	("4947398").URPN.	USPAT	OR	OFF	2006/03/29 10:49
S60	2	("4081765"   "4159453").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/29 10:59
S61	1	("5410515").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/29 11:08
S62	24	("5867513").URPN.	USPAT	OR	OFF	2006/03/29 11:08
S63	16	("4815081"   "4913525"   "5042042"   "5068864"   "5208819"   "5299212"   "5323409"   "5428700"   "5544183"   "5691989"   "5706301"   "5780843"   "5798859"   "5825792"   "5867513"   "6243403").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/29 12:14
S65	3	((("4947398") or ("5867513") or ("6587214"))).PN.	US-PGPUB; USPAT	OR	OFF	2006/03/29 13:20
S66	49	S46 and ((bit adj error\$1) or ber)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 13:20
S67	385	398/195-198.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 14:37
S68	28	S67 and (pll or (phase adj lock\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 14:47
S69	87	398/162.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 14:47

## EAST Search History

S70	1119	S40 and (eye)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 14:47
S71	228	S40 and ((data adj eye) or (eye adj pattern\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 14:51
S72	94	S71 and (feedback)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 14:48
S73	526	S40 and ((data adj eye) or (eye adj (pattern\$1 or diagram\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 14:57
S74	19	S40 and ((data adj eye))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 14:57
S75	6416	eye adj (open\$4 or pattern\$1 or diagram\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 14:57
S76	1147	((data adj eye))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 15:01
S77	7301	S75 or S76	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 15:01
S78	570	S77 with compar\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 15:02
S79	74	S78 and S40	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 15:02
S80	92	pmd adj emulat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 15:26

## EAST Search History

S81	60	(US-20010048537-\$).did. or (US-6005695-\$ or US-6310703-\$ or US-6735395-\$ or US-6631019-\$ or US-5488503-\$ or US-4962503-\$ or US-6066983-\$ or US-5003624-\$ or US-5182524-\$ or US-5124665-\$ or US-5943152-\$ or US-5193224-\$ or US-5859725-\$ or US-6842587-\$ or US-6246286-\$ or US-4008390-\$ or US-6259542-\$ or US-5900959-\$ or US-5287555-\$ or US-6925262-\$ or US-5257415-\$ or US-7016610-\$ or US-5080505-\$ or US-6599039-\$ or US-5282074-\$ or US-5894362-\$).did. or (US-5847856-\$ or US-5546325-\$ or US-5818629-\$ or US-6788138-\$ or US-6625429-\$ or US-5541755-\$ or US-6545788-\$ or US-6459830-\$ or US-4403139-\$ or US-4907237-\$ or US-5134623-\$ or US-6618404-\$ or US-4945541-\$ or US-4947398-\$ or US-5081635-\$ or US-5107511-\$ or US-5130998-\$ or US-5214659-\$ or US-6400737-\$ or US-6529534-\$ or US-6611341-\$ or US-6621580-\$ or US-5276696-\$ or US-5502298-\$ or US-5867513-\$ or US-6587214-\$ or US-4989201-\$).did. or (US-6243403-\$ or US-6259712-\$ or US-5184244-\$ or US-6445471-\$ or US-6456411-\$ or US-5774242-\$).did.	US-PGPUB; USPAT	OR	OFF	2006/03/29 15:42
S82	2865	((plurality or multiple) adj lasers)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 15:41
S83	10391	laser\$1 near array\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 15:41
S84	12708	S82 or S83	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 15:42
S85	2	S81 and S84	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 15:52



## EAST Search History

S86	2	("6947456").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 15:42
S87	2	((("5894362") or ("6445471"))).PN.	US-PGPUB; USPAT	OR	OFF	2006/03/29 16:04
S88	8	yorks-jason-\$.in. or yorks-jason.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 16:19
S89	10	S81 and test\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 16:19
S90	4	("5546325").URPN.	USPAT	OR	OFF	2006/03/29 17:24
S91	619	aronson.in.	US-PGPUB; USPAT	OR	OFF	2006/03/29 17:24
S92	56	transceiver and S91	US-PGPUB; USPAT	OR	OFF	2006/03/29 17:25
S93	14	substrate and S92	US-PGPUB; USPAT	OR	OFF	2006/03/29 17:26
S94	2	("6,021,947").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 17:30
S96	6	S81 and (pll or(phase adj lock\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 17:31
S97	3583	(bandwidth same gain) and (pll or(phase adj lock\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 17:32
S98	92	S97 and S40	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 17:32
S99	1003	(bandwidth same gain) same (pll or(phase adj lock\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 17:37
S100	11	S99 and S40	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 17:32

## EAST Search History

S10 1	4439	(bandwidth same gain) same (loop)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 17:33
S10 2	77	S101 and S40	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 17:34
S10 3	44843	(control\$4 or adjust\$4) with (pll or(phase adj lock\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 18:12
S10 4	324	S103 and S40	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 18:02
S10 5	41	S104 and S52	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 17:43
S10 6	58588	(reference adj (clock or oscillat\$4 or frequenc\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 17:46
S10 7	2084	S106 same jitter	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 17:47
S10 8	1055	S107 and S103	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 17:47
S10 9	33	S108 and S52	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 17:47
S11 0	5	S108 and S40	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 18:02
S11 1	7614	(feedback) with (pll or(phase adj lock\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/31 12:31
S11 2	59	S111 and S40	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 18:06

## EAST Search History

S11 3	2433	(control\$4 or adjust\$4) with gain with (pll or(phase adj lock\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/29 18:12
S11 4	13061	398/1-214.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/31 12:31
S11 5	94678	(pll or(phase adj lock\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/31 13:16
S11 6	859	S114 and S115	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/31 12:32
S11 7	38894	(pll or(phase adj lock\$4)).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/31 12:32
S11 8	79	S114 and S117	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/31 12:41
S11 9	216	S116 and jitter	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/31 12:41
S12 0	8188	S115 same (transmitter or transmitting)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/31 13:16
S12 1	198	S114 and S120	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/31 13:16
S12 2	10	("5031234"):URPN.	USPAT	OR	OFF	2006/03/31 13:33
S12 3	4	("3571597"   "3863064"   "4287606"   "4560270").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/31 13:33
S12 4	12	("4287606"):URPN.	USPAT	OR	OFF	2006/03/31 13:35
S12 5	3	("3699463"   "4221960"   "4287606").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/31 13:35

## EAST Search History

S12 6	6	("4829258"   "5357249"   "6014177"   "6150887"   "6154097"   "6249685").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/31 13:52
S12 7	14	("4471494"   "5382785"   "5402433"   "5448629"   "5485300"   "5488621"   "5515361"   "5673132"   "5809049"   "5812572"   "5822099"   "5903375"   "5965876"   "6188498").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/31 14:04
S12 8	88	398/198.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/31 14:04
S12 9	13	S115 and S128	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/31 14:16
S13 0	2500	375/376.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/31 14:16
S13 1	384	S120 and S130	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/31 14:16
S13 2	532652	feedback or ((feeding or fed) adj back)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/31 14:17
S13 3	224	S131 and S132	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/31 14:17
S13 4	12607	S132 same S115	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/31 14:17
S13 5	840	S134 and S130	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/31 14:17

## EAST Search History

S13 6	175	S134 and S131	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/31 14:19
S13 7	2173	bandwidth with gain and S115	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/31 14:23
S13 9	132	S130 and S137	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/31 14:22
S14 0	380	bandwidth with gain with S115	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/31 14:23
S14 1	57	S130 and S140	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/31 15:17
S14 2	1	("6445471").PN.	US-PGPUB; USPAT	OR	OFF	2006/03/31 15:19
S14 3	1	("6842587").PN.	US-PGPUB; USPAT	OR	OFF	2006/03/31 15:19
S14 4	1	("5546325").PN.	US-PGPUB; USPAT	OR	OFF	2006/03/31 15:38
S14 5	2	("5675432"   "6023362").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/31 15:59
S14 6	1	"6,021,947".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/31 15:59